

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for forward transmission comprising:

processing a present data frame to be transmitted, the present data frame comprising:

a header subframe containing frame mapping information of data to be transmitted to a plurality of terminals; and

data subframes containing data multiplexed therein, and to be transmitted to the plurality of terminals at a present time in correspondence to frame mapping information transmitted in a frame in advance of the header subframe of the present frame, wherein the frame mapping information transmitted in the frame in advance of the header subframe of the present frame includes a header subframe having subframe numbers arranged in a specific order to correspond to positions of the corresponding multiplexed subframes in the present frame and the frame in advance additionally includes data subframes following the header subframe, wherein the frame mapping information transmitted in the frame in advance of the present frame includes the subframe numbers transmitted 'n' frames before the present frame in succession, and the multiplexed data subframes are positioned in the present frame according to an order of transmission of the subframe numbers that is transmitted in the frame in advance of the present frame, and

transmitting the present data frame.

2. (Currently Amended) The method as claimed in claim 1, wherein the frame mapping information transmitted in advance of the present frame is transmitted 'n' frames before the ~~current~~ present frame.

3-4. (Canceled)

5. (Previously Presented) The method as claimed in claim 1, wherein the header subframe contains data subframe numbers, frame quality indicator, and reserved/encoder tail information.

6. (Previously Presented) The method as claimed in claim 1, wherein the data subframe contains data to be transmitted to a relevant terminal, frame quality indicators, and reserved/encoder tail information.

7. (Previously Presented) The method as claimed in claim 1, wherein the header subframe is scrambled in a code all the terminals know.

8. (Previously Presented) The method as claimed in claim 1, wherein the data subframes are encoded in codes only relevant terminals know.

9. (Previously Presented) The method as claimed in claim 1, wherein the data subframes are multiplexed according to an order of generation.
10. (Previously Presented) The method as claimed in claim 1, wherein the data subframes are multiplexed in the present frame according to priorities of the terminals.
11. (Previously Presented) The method as claimed in claim 1, wherein the data subframes are encoded, symbol repeated, interleaved, and scrambled.
12. (Previously Presented) The method as claimed in claim 1, wherein in case the data subframe can not complete one frame fully, a power supply for a section of the frame without data transmission is turned off.
13. (Previously Presented) The method as claimed in claim 1, wherein at least one of the data subframes contains a broadcasting data to be transmitted to all terminals.
14. (Currently Amended) The method as claimed in claim 13, wherein the frame mapping information of the data subframe that transmits the broadcasting data is transmitted 'n' frames before ~~[[a]]~~the header subframe of the present frame.

15. (Previously Presented) The method as claimed in claim 13, wherein the data subframe that transmits the broadcasting data is scrambled with codes known to all terminals that use the broadcasting service.

16. (Currently Amended) A method for forward transmission of a data, comprising:

(a) processing data to be transmitted at a present time to form a present frame having subframes;

(b) multiplexing the formed subframes of the present frame according to subframe mapping information that is transmitted in a frame in advance of the present frame, wherein the frame in advance of the present frame includes a header subframe having subframe numbers corresponding to the subframe mapping information, and a plurality of subframes that follow the header subframe of the frame in advance; and

(c) transmitting the multiplexed subframes of the present frame together with subframe mapping information of the subframes to be transmitted after transmitting the present frame, wherein the subframe mapping information includes subframe numbers in a specific order to correspond to positions of formed subframes to be transmitted after the present frame in a subsequent frame.

17. (Currently Amended) ~~[[A]]~~The method as claimed in claim 16, wherein processing data includes:

encoding, symbol repetition, interleaving, and scrambling for forming subframes.

18. (Currently Amended) ~~[[A]]~~The method as claimed in claim 16, further comprising:
a terminal being allocated with a subframe number of the terminal;
the terminal receiving subframe mapping information, and determining
containment of the subframe number of the terminal; and
the terminal receiving a data for the terminal after 'n' frames at a position the
subframe number indicates, if the subframe number of the terminal is contained as a result of
the determination.
19. (Currently Amended) ~~[[A]]~~The method as claimed in claim 16, wherein the formed
subframes are multiplexed in the present frame according to an order of formation.
20. (Currently Amended) ~~[[A]]~~The method as claimed in claim 16, wherein the formed
subframes are multiplexed in the present frame according to priorities of the terminals.
21. (Currently Amended) ~~[[A]]~~The method as claimed in claim 16, wherein the frame
mapping information is scrambled with codes all the terminals know.
22. (Currently Amended) ~~[[A]]~~The method as claimed in claim 16, wherein the
subframes are scrambled with codes only a relevant terminal knows.

23. (Currently Amended) ~~[[A]]~~The method as claimed in claim 16, wherein the number of formed subframes is increased/decreased in proportion to a transmission rate of a data transmission channel.

24. (Currently Amended) A method for forward transmission comprising:
processing data to be transmitted in a present frame, the data including:
a header subframe containing a plurality of subframe numbers relating to data for a plurality of terminals; and
a plurality of data subframes each containing data to be transmitted to the plurality of terminals, wherein an order of the plurality of data subframes in the present frame identifies an order of subframe numbers that is transmitted in a previous frame prior to transmission of the present frame, wherein the previous frame include a header subframe having the subframe numbers, and a plurality of subframes that follow the header subframe of the previous frame, and
transmitting the data of the present frame.

25. (Previously Presented) The method of claim 24, wherein the subframe numbers contain information related to positions of the data subframes within the present frame.

26. (Previously Presented) The method of claim 24, wherein the header subframe contains data subframe numbers, frame quality indicator, and reserved/encoder tail information.